



STS Consultants, Ltd.
Solutions through Science & Engineering

November 26, 2001

EPA Region 5 Records Ctr.



232878

Ms. Vemeta Simon, On-Scene Coordinator
Mr. Fred Micke, On-Scene Coordinator
US Environmental Protection Agency
Region 5
77 W. Jackson Blvd., SE-5J
Chicago, Illinois 60604-3590

RE: Progress Report for October 2001 - 341 East Ohio Street - STS Project No. 1-25585-XG,
Correspondence No. 025

Dear Ms. Simon and Mr. Micke:

STS Consultants, Ltd. (STS) as Authorized Project Coordinator for Teachers' Retirement System of the State of Illinois (TRS), submits the following report to USEPA Region 5 in compliance with Section V, Paragraph 3.4 of the Unilateral Administrative Order (Order), Docket No. V-W-96-C-353, issued June 6, 1996, as amended by the First Amendment to that Order dated March 29, 2000 and as supplemented by the Action Memorandum Amendment dated March 1, 2001 for the OU3 North McClurg Court Site (341 East Ohio Street). This progress report identifies actions taken during October 2001 and activities planned or expected during November 2001.

I. PROGRESS DURING OCTOBER 2001

- The on-site laboratory was set up and the equipment calibrated. Calibration samples for the on-site laboratory were run in the on-site laboratory and the fixed laboratory at RSSI in Morton Grove, Illinois. In November, these samples will be sent to USEPA's contract laboratory at Argonne for confirmation of the calibration.
- Final revised comments on the Quality Assurance Project Plan (QAPP) were received from USEPA. These final comments are being addressed.
- RCRA hazardous waste characterization samples were obtained from areas of known radiological impact and analysis completed. STS submitted a report of such investigation.
- The Chicago Board of Underground process was completed and approval obtained for the perimeter drilling program.
- The deep perimeter drilling work was completed.

II. DATA

- Radiological data (gamma readings) have been obtained from all of the 380 perimeter borings. Data analyzed from the 191 deep perimeter borings on the east side of the site indicated no locations with elevated gamma readings. Six of the shallow perimeter borings on the north and south sides of the western portion of the site indicated elevated gamma readings as follows:

<u>Boring</u>	<u>Depth (ft)</u>	<u>Counts/30 seconds</u>	<u>Cutoff Value (=7.2 pCi/gm)</u>
<u>North</u>			
M.9-8.5	2.5	24,899	18,804
	3.0	25,581	18,804
N.1-10	1.5	68,291	18,059
	2.0	26,772	18,059
<u>South</u>			
A.4-3.9	1.5	23,288	18,059
A.4-5.1	1.0	33,267	18,804
A.4-4.4	1.0	28,333	18,804

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	1.5	22,240	18,804
A.1-3.1	1.5	62,645	18,804
	2.0	49,889	18,804
	2.5	19,754	18,804

- The 10 borings drilled for the RCRA hazardous waste sampling in the areas of known radiological impact detected six composite samples, B-1, B-2, B-4, B-5, B-8 and B-9, to exceed the cleanup threshold of 7.1 pCi/g. The full range of RCRA hazardous wastes, as well as heavy metals, was analyzed for the 10 borings. All of the metal results are below the applicable hazardous waste criteria. With the exception of Boring B-3, no chemicals were detected at levels above the RCRA characteristic hazardous waste limit for each such constituent. Boring B-3 was found to have a chlordane concentration above the hazardous waste criteria for Toxicity, per the Toxicity characteristic Leaching Procedure (TCLP) test method. The results indicated a TCLP concentration of 580 ug/L in contrast to the hazardous waste criterion of 30 ug/L. Other pesticides were detected in the sample from Boring B-3 including Endrin, Lindane, Heptachlor, and Heptachlor Epoxide. None of these were detected at levels above the RCRA characteristic hazardous waste limit for each such constituent.

B-3
 580
 ug/L

III. PLANNED FOR NOVEMBER 2001

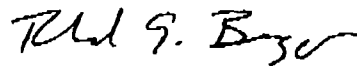
- Written approval of the revised Quality Assurance Project Plan will be requested from USEPA.
- An additional 10 RCRA hazardous waste characterization samples will be collected from the vicinity of the former hazardous waste storage facility operated by Velsicol Chemical Company and submitted for analysis. Based on the results of these samples, the wastes will be delineated, or additional samples will be taken, to determine the extent of RCRA contamination. Treatment and disposal options will be explored, dependent on the type and amount of contamination.
- Samples used for calibration during set up of the on-site laboratory will be sent to Argonne for confirmation of the calibration.
- STS will work on preparation of a report of the radiological investigation of the site perimeter through subsurface soil borings. This report will be finalized in December 2001.
- City of Chicago approval for any necessary closures of adjacent streets and sidewalks will be requested.
- Treatment and disposal options will be explored for disposal of the RCRA materials and any mixed RCRA/radiological wastes.
- Scope and costs of the dewatering system necessary for the eastern portion of the site will be further evaluated as necessary to finalize the Excavation Contract.

Please contact us at 847-279-2500 with any questions you may have regarding this information.

Regards,

STS CONSULTANTS, LTD.


 Julie Apolinario
 Senior Project Manager


 Richard G. Berggreen, C.P.G.
 Principal Geologist

cc: Timothy Ramsey, Piper, Marbury, Rudnick & Wolfe
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**FACSIMILE TRANSMISSION****Date:** November 26, 2001**To:** Fred Micke/Verneta Simon USEPA Fax #: 312-353-9176

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Pages being transmitted, incl. Cover: 3**CC:** **Fax No.:****From:** Julie Apolinario **Phone:** 847-279-2500**Re:** 341 East Ohio Street Site☐ Urgent ☐ For Signature ☐ For Review ☐ Please Comment/Reply ☐ As Requested ☐ Original to Follow**Message:**

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